



Product: [70094D](#)

Life Cycle Status: Discontinued

IE 5E, 4PR #26 Str BC, PO ins, SF/UTP, PVC jkt, UL AWM 2464, Outdoor

Product Description

IE 5E, 4 pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PVC jacket , UL AWM 2464, Outdoor

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
26 AWG	7x0.16 mm	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.98 mm (0.039 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

Cable Core

Description
4 pairs twisted to cable core covered with a polyester foil

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	85%

Table Notes:	Aluminum outside
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Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.4 mm (0.25 in)

Overall Cable Diameter (Nominal):	6.4 mm (0.25 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
140 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	60%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELCTL [dB]
1	3.2 dB/100m	65.3	62.3	62.1	59.1	64	61	23	40	35

4	6 dB/100m	56.3	53.3	50.3	47.3	52	49	23	34	23
10	9.5 dB/100m	50.3	47.3	40.8	37.8	44	41	25	30	15
16	12.1 dB/100m	47.2	44.2	35.2	32.2	39.9	36.9	25	28	10.9
20	13.5 dB/100m	45.8	42.8	32.2	29.2	38	35	25	27	9
31.25	17.1 dB/100m	42.9	39.9	25.8	22.8	34.1	31.5	23.3	25.1	5.5
62.5	24.8 dB/100m	38.4	35.4	13.6	10.6	28.1	25.1	20.7	22	
100	32 dB/100m	35.3	32.3	3.3	0.3	24	21	19	20	

Table Notes: Reference standard: IEC 61156-5

Transfer Impedance

Frequency	Max. Transfer Impedance
1 Mhz	Max. 10 mOhm/m
10 Mhz	Max. 10 mOhm/m
30 Mhz	Max. 30 mOhm/m
100 Mhz	100 mOhm/m

Transfer Impedance Class:	Grade 1
Screening Class:	Type I
Table Notes:	Coupling Attenuation

Voltage

UL Voltage Rating	Voltage Rating
UL AWM 2464: 300 A.C.	72 V DC

Mechanical Characteristics

Temperature

Operating	Installation
-40°C to +80°C	0°C To +50°C

Bend Radius

Stationary Min.	Installation Min.
30 mm (1.2 in)	60 mm

Max. Pull Tension:	80 N (18 lbf)
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Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	VW 1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.109 Revision Date: 06-25-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70094D.00500	Black	Reel	500 m	8719605011763
70094D.001000	Black	Reel	1,000 m	8719605202772
70094D.003000	Black	Reel	3,000 m	8719605206664

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